

FORM PTO-1449 <u>FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 1954.0010001/EKS/PSC	APPLICATION NO. 09/881,204
		APPLICANT DOMINIKO, et al.	
		FILING DATE June 15, 2001	GROUP 1651 1632

U. S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
TNT	AA1	5,843,780	12/01/1998	Thomson et al.	435	363	01/18/1996
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL1	WO 90/03432 A1	04/05/1990	WIPO			Yes No
TNT	AM1	WO 94/24274 A1	10/27/1994	WIPO			Yes No
TNT	AN1	WO 94/26884 A1	11/24/1994	WIPO			Yes No
TNT	AO1	WO 94/26889 A2	11/24/1994	WIPO			Yes No
	AP1	WO 98/07841 A1	02/26/1998	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TNT	AR	2	Almouzni, G., et al., "Histone Acetylation Influences both Gene Expression and Development of <i>Xenopus laevis</i> ," <i>Dev. Biol.</i> 165:654-669, Academic Press (1994)
TNT	AS	2	Azizi, S.A., et al., "Engraftment and migration of human bone marrow stromal cells implanted in the brains of albino rats-similarities to astrocyte grafts," <i>Proc. Natl. Acad. Sci. USA</i> 95:3908-3913, National Academy of Sciences (1998)
TNT	AT	2	Baguisi, A., et al., "Production of goats by somatic cell nuclear transfer," <i>Nat. Biotechnol.</i> 17:456-461, Nature America (May 1999)

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
TNT	AL2	WO 99/45100 A1	09/10/1999	WIPO			Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TNT	AR	3	Barnes, F.L., et al., "Influence of Recipient Oocyte Cell Cycle Stage on DNA Synthesis, Nuclear Envelope Breakdown, Chromosome Constitution, and Development in Nuclear Transplant Bovine Embryos," <i>Mol. Reprod. Dev.</i> 36:33-41, Wiley-Liss, Inc. (1993)
TNT	AS	3	Bjornson, C.R.R., et al., "Turning Brain into Blood: A Hematopoietic Fate Adopted by Adult Neural Stem Cells in Vivo," <i>Science</i> 283:534-537, American Association for the Advancement of Science (January 1999)
TNT	AT	3	Blau, H.M., and Baltimore, D., "Differentiation Requires Continuous Regulation," <i>J. Cell Biol.</i> 112:781-783, Rockefeller University Press (1991)

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TN1	AR	4	Bradley, A., et al., "Modifying the Mouse: Design and Desire," <i>Biotechnology</i> 10:534-539, Nature Publishing Company (1992)
TNT	AS	4	Campbell, K.H.S., et al., "Nuclear Cytoplasmic Interactions during the First Cell Cycle of Nuclear Transfer Reconstructed Bovine Embryos: Implications for Deoxyribonucleic Acid Replication and Development," <i>Biol. Reprod.</i> 49:933-942, Society For The Study Of Reproduction (1993)
TNT	AT	4	Campbell, K.H.S., "Nuclear Equivalence, Nuclear Transfer, and the Cell Cycle," <i>Cloning</i> 1:3-15, Mary Ann Liebert (September 1999)

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TNT	AR	5	Cherny, R.A., and Merei, J., "Evidence for Pluripotency of Bovine Primordial Germ Cell-Derived Cell Lines Maintained in Long-Term Culture," <i>Theriogenology</i> 41:175, Butterworth-Heinemann (1994)
TNT	AS	5	Cohen, J., et al., "Atypical Activation and Fertilization Patterns in Humans," <i>Theriogenology</i> 43:129-140, Butterworth-Heinemann (1995)
TNT	AT	5	Colman, A., and Kind, A., "Therapeutic cloning: concepts and practicalities," <i>Trends Biotechnol.</i> 18:192-196, Elsevier Science Ltd. (May 2000)

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

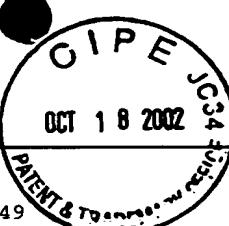
TNT	AR	6	Davis, R.L., et al., "Expression of a Single Transfected cDNA Converts Fibroblasts to Myoblasts," <i>Cell</i> 51:987-1000, Cell Press (1987)
TNT	AS	6	Dinsmore, J., et al., "Embryonic Stem Cells Differentiated In Vitro as a Novel Source of Cells for Transplantation," <i>Cell Transplant.</i> 5:131-143, Elsevier Science Inc. (1996)
TNT	AT	6	Dominko, T., et al., "Bovine Oocyte Cytoplasm Supports Development of Embryos Produced by Nuclear Transfer of Somatic Cell Nuclei from Various Mammalian Species," <i>Biol. Reprod.</i> 60:1496-1502, Society For The Study Of Reproduction (June 1999)

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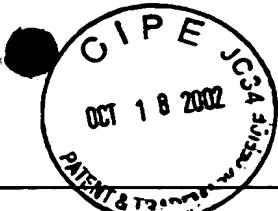
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TNT	AR	7	Dubbs, D.R., and Kit, S., "Reactivation of Chick Erythrocyte Nuclei in Heterokaryons with Temperature-Sensitive Chinese Hamster Cells," <i>Somatic Cell Genet.</i> 2:11-19, Plenum Press (1976)
TNT	AS	7	Evans, M.J., and Kaufman, M.H., "Establishment in culture of pluripotential cells from mouse embryos," <i>Nature</i> 292:154-156, Macmillan Journals Ltd. (1981)
TNT	AT	7	Ferrari, G., et al., "Muscle Regeneration by Bone Marrow-Derived Myogenic Progenitors," <i>Science</i> 279:1528-1530, American Association for the Advancement of Science (1998)

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TNT	AR	8	Fuchs, E., and Segre, J.A., "Stem Cells: A New Lease on Life," <i>Cell</i> 100:143-155, Cell Press (January 2000)
TNT	AS	8	Galli, C., et al., "Mammalian Leukocytes Contain All the Genetic Information Necessary for the Development of a New Individual," <i>Cloning</i> 1:161-170, Mary Ann Liebert, Inc. (September 1999)
TNT	AT	8	Goldman, R.D., et al., "Preservation of Normal Behavior by Enucleated Cells in Culture," <i>Proc. Natl. Acad. Sci. USA</i> 70:750-754, National Academy of Sciences (1973)

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TNT	AR	9	Handyside, A., et al., "Towards the isolation of embryonal stem cell lines from the sheep," <i>Roux's Arch. Dev. Biol.</i> 196:185-190, Springer-Verlag (1987)
TNT	AS	9	Hightower, M.J., et al., "Identification of key regulated events early in the life of hybrid animal cells constructed by nuclear transplantation," <i>Proc. Natl. Acad. Sci. USA</i> 80:5310-5314, National Academy of Sciences (1983)
TNT	AT	9	Hu, E., et al., "Transdifferentiation of myoblasts by the adipogenic transcription factors PPAR γ and C/EBP α ," <i>Proc. Natl. Acad. Sci. USA</i> 92:9856-9860, National Academy of Sciences (1995)

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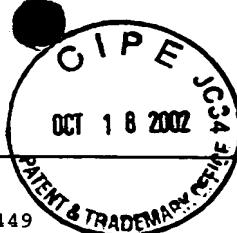
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	AL						Yes No
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TNT	AR	10	Kato, Y., et al., "Eight Calves Cloned from Somatic Cells of a Single Adult," <i>Science</i> 282:2095-2098, American Association for the Advancement of Science (1998)
TNT	AS	10	Kenyon, L., and Moraes, C.T., "Expanding the functional human mitochondrial DNA database by the establishment of primate xenomitochondrial cybrids," <i>Proc. Natl. Acad. Sci. USA</i> 94:9131-9135, National Academy of Sciences (1997)
TNT	AT	10	King, M.P., and Attardi, G., "Isolation of Human Cell Lines Lacking Mitochondrial DNA," <i>Methods Enzymol.</i> 264:304-313, Academic Press (1996)

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TNT	AR	<u>11</u>	Kono, T., et al., "Parthenogenetic Activation by Electric Stimulus of Bovine Oocytes Matured In Vitro," <i>Theriogenology</i> 32:569-576, Butterworths (1989)
TNT	AS	<u>11</u>	Kopen, G.C., et al., "Marrow stromal cells migrate throughout forebrain and cerebellum, and they differentiate into astrocytes after injection into neonatal mouse brains," <i>Proc. Natl. Acad. Sci. USA</i> 96:10711-10716, National Academy of Sciences (September 1999)
TNT	AT	<u>11</u>	Krondahl, U., et al., "Cells reconstituted from cell fragments of two different species multiply and form colonies," <i>Proc. Natl. Acad. Sci. USA</i> 74:606-609, National Academy of Sciences (1977)

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TNT	AR	<u>12</u>	Kubota, C., et al., "Six cloned calves produced from adult fibroblast cells after long-term culture," Proc. Natl. Acad. Sci. USA 97:990-995, National Academy of Sciences (February 2000)
TNT	AS	<u>12</u>	Larsson, N.G., et al., "Mitochondrial transcription factor A is necessary for mtDNA maintenance and embryogenesis in mice," Nat. Genet. 18:231-236, Nature Publishing Company (1998)
TNT	AT	<u>12</u>	Lucas, J.J., and Kates, J.R., "The Construction of Viable Nuclear-Cytoplasmic Hybrid Cells by Nuclear Transplantation," Cell 7:397-405, The MIT Press (1976)

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TNT	AR	<u>13</u>	Macháty, Z., et al., "Developmental Changes in the Intracellular Ca ²⁺ Release Mechanisms in Porcine Oocytes," <i>Biol. Reprod.</i> 56:921-930, Society For The Study Of Reproduction (1997)
TNT	AS	<u>13</u>	Matsui, Y., et al., "Effect of Steel factor and leukemia inhibitory factor on murine primordial germ cells in culture," <i>Nature</i> 353:750-752, Nature Publishing Co. (1991)
TNT	AT	<u>13</u>	McWhir, J., et al., "Selective ablation of differentiated cells permits isolation of embryonic stem cell lines from murine embryos with a non-permissive genetic background," <i>Nat. Genet.</i> 14:223-226, Nature Publishing Co. (1996)

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TNT	AR	<u>14</u>	Nagai, T., "Parthenogenetic Activation of Cattle Follicular Oocytes In Vitro With Ethanol," <i>Gamete Res.</i> 16:243-249, Alan R. Liss, Inc. (1987)
TNT	AS	<u>14</u>	Notarianni, E., et al., "Derivation of pluripotent, embryonic cell lines from the pig and sheep," <i>J. Reprod. Fert., Suppl.</i> 43:255-260, Journals of Reproduction & Fertility Ltd. (1991)
TNT	AT	<u>14</u>	Ohara, J., et al., "Purification of Cytoplasts (Enucleated Cells) and Karyoplasts (Nuclei) form Mouse Splenic Lymphocytes with Cytochalasin-B," <i>J. Immunol. Methods</i> 45:239-248, Elsevier/North-Holland Biomedical Press (1981)

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	AL						Yes No
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	AO						Yes No
	AP						Yes No

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TNT	AR	15	O'Neill, G.T., et al., "Developmental Potential and Chromosome Constitution of Strontium-Induced Mouse Parthenogenones," <i>Mol. Reprod. Dev.</i> 30:214-219, Wiley-Liss, Inc. (1991)
TNT	AS	15	Pieterse, M.C., et al., "Aspiration of Bovine Oocytes During Transvaginal Ultrasound Scanning of the Ovaries," <i>Theriogenology</i> 30:751-762, Butterworths (1988)
TNT	AT	15	Pratt, L.R., "Molecular Theory of Hydrophobic Effects: 'She is too mean to have her name repeated', " <i>Annu. Rev. Phys. Chem.</i> 53:409-436, Annual Reviews Inc. (2002)

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FORM PTO-1449 <u>FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 1954.0010001/EKS/PSC	APPLICATION NO. 09/881,204
		APPLICANT DOMINIKO, et al.	
		FILING DATE June 15, 2001	GROUP 1651 1632

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TNT	AR	<u>16</u>	Presicce, G.A., and Yang, X., "Nuclear Dynamics of Parthenogenesis of Bovine Oocytes Matured In Vitro for 20 and 40 Hours and Activated With Combined Ethanol and Cycloheximide Treatment," <i>Mol. Reprod. Dev.</i> 37:61-68, Wiley-Liss, Inc. (1994)
TNT	AS	<u>16</u>	Procházka, R., et al., "Development of pronuclei in pig oocytes activated by a single electric pulse," <i>J. Reprod. Fert.</i> 96:725-734, Journals of Reproduction & Fertility Ltd. (1992)
TNT	AT	<u>16</u>	Rao, M.V.N., "Reactivation of Chick Erythrocyte Nuclei in Young and Senescent WI38 Cells," <i>Exp. Cell. Res.</i> 102:25-30, Academic Press, Inc. (1976)

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TNT	AR	17	Reubinoff, B.E., et al., "Embryonic stem cell lines from human blastocyst: somatic differentiation in vitro," <i>Nat. Biotechnol.</i> 18:399-404, Nature Publishing Co. (April 2000)
TNT	AS	17	Roach, S., et al., "Cultured Cell Lines from Human Teratomas: Windows into Tumour Growth and Differentiation and Early Human Development," <i>Eur. Urol.</i> 23:82-88, S. Karger Medical and Scientific Publishers (1993)
TNT	AT	17	Saito, S., et al., "Bovine embryonic stem cell-like cell lines cultured over several passages," <i>Roux's Arch. Dev. Biol.</i> 201:134-141, Springer-Verlag (1992)

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TNT	AR	<u>18</u>	Sato, Y., et al., "Adenophostin, a Potent Agonist of the Inositol 1,4,5-Trisphosphate Receptor, Is Useful for Fertilization of Mouse Oocytes Injected with Round Spermatids Leading to Normal Offspring," <i>Biol. Reprod.</i> 58:867-873, Society For The Study Of Reproduction (1998)
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TNT	AT	<u>18</u>	Schnieke, A.E., et al., "Human Factor IX Transgenic Sheep Produced by Transfer of Nuclei from Transfected Fetal Fibroblasts," <i>Science</i> 278:2130-2133, American Association for the Advancement of Science (1997)

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	AM						Yes No
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TNT	AR	19	Shadel, G.S., and Clayton, D.A., "Mitochondrial DNA Maintenance in Vertebrates," <i>Annu. Rev. Biochem.</i> 66:409-435, Annual Reviews Inc. (1997)
TNT	AS	19	Shambrott, M.J., et al., "Derivation of pluripotent stem cells from cultured human primordial germ cells," <i>Proc. Natl. Acad. Sci. USA</i> 95:13726-13731, National Academy of Sciences (1998)
TNT	AT	19	Shiels, P.G., et al., "Analysis of telomere lengths in cloned sheep," <i>Nature</i> 399:316-317, Nature Publishing Co. (May 1999)

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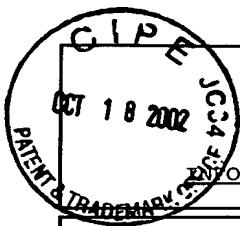
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

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TNT	AR	20	Snyder, E.Y., et al., "Potential of Neural 'Stem-Like' Cells for Gene Therapy and Repair of the Degenerating Central Nervous System," Adv. Neurol. 72:121-132, Lippincott-Raven Publishers (1997)
TN	AS	20	Stice, S.L., and Robl, J.M., "Activation of Mammalian Oocytes by a Factor Obtained From Rabbit Sperm," Mol. Reprod. Dev. 25:272-280, Wiley-Liss, Inc. (1990)
TNT	AT	20	Susko-Parrish, J.L., et al., "Inhibition of Protein Kinases after an Induced Calcium Transient Causes Transition of Bovine Oocytes to Embryonic Cycles without Meiotic Completion," Dev. Biol. 166:729-739, Academic Press, Inc. (1994)

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	AL						Yes No
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TNT	AR	21	Swann, K., "A cytosolic sperm factor stimulates repetitive calcium increases and mimics fertilization in hamster eggs," Development 110:1295-1302, Company of Biologists Ltd. (1990)
TNT	AS	21	Tada, M., et al., "Embryonic germ cells induce epigenetic reprogramming of somatic nucleus in hybrid cells," EMBO J. 16:6510-6520, Oxford University Press (1997)
TNT	AT	21	Thomson, J.A., et al., "Isolation of a primate embryonic stem cell line," Proc. Natl. Acad. Sci. USA 92:7844-7848, National Academy of Sciences (1995)

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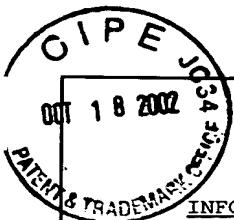
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TNT	AR	22	Thomson, J.A., and Marshall, V.S., "Primate Embryonic Stem Cells," Curr. Top. Dev. Biol. 38:133-165, Academic Press (1998)
TNT	AS	22	Thomson, J.A., et al., "Embryonic Stem Cell Lines Derived from Human Blastocysts," Science 282:1145-1147, American Association for the Advancement of Science (1998)
TNT	AT	22	Tontonoz, P., et al., "Stimulation of Adipogenesis in Fibroblasts by PPAR γ 2, a Lipid-Activated Transcription Factor," Cell 79:1147-1156, Cell Press (1994)

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		APPLICANT DOMINIKO, et al.	
		FILING DATE June 15, 2001	GROUP 165111032

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TNT	AR	<u>23</u>	Trounson, A., et al., "Current Status of IVM/IVF and Embryo Culture in Humans and Farm Animals," Theriogenology 41:57-66, Butterworth-Heinemann (1994)
TNT	AS	<u>23</u>	Van Stekelenburg-Hamers, A.E.P., et al., "Isolation and Characterization of Permanent Cell Lines From Inner Cell Mass Cells of Bovine Blastocysts," Mol. Reprod. Dev. 40:444-454, Wiley-Liss, Inc. (1995)
TNT	AT	<u>23</u>	Vogel, G., "Harnessing the Power of Stem Cells," Science 283:1432-1434, American Association for the Advancement of Science (March 1999)

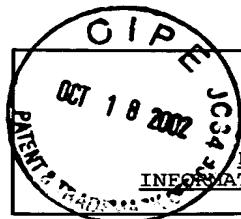
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APPLICANT
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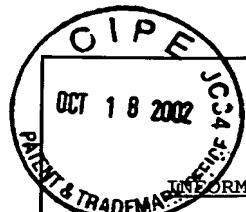
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TNT	AR	<u>24</u>	Wakayama, T., et al., "Full-term development of mice from enucleated oocytes injected with cumulus cell nuclei," Nature 394:369-374, Nature Publishing Co. (1998)
TNT	AS	<u>24</u>	Wakayama, T., and Yanagimachi, R., "Cloning of male mice from adult tail-tip cells," Nat. Genet. 22:127-128, Nature Publishing Co. (June 1999)
TNT	AT	<u>24</u>	Weissman, I.L., "Stem Cells: Units of Development, Units of Regeneration, and Units in Evolution," Cell 100: 157-168, Cell Press (January 2000)

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ANT	AR	25	Wells, D.N., et al., "Production of Cloned Calves Following Nuclear Transfer with Cultured Adult Mural Granulosa Cells," Biol. Reprod. 60:996-1005, Society For The Study Of Reproduction (April 1999)
TNT	AS	25	Wilmut, I., et al., "Viable offspring derived from fetal and adult mammalian cells," Nature 385:810-813, Nature Publishing Co. (1997)
TNT	AT	25	Zhang, S.C., et al., "Adult brain retains the potential to generate oligodendroglial progenitors with extensive myelination capacity," Proc. Natl. Acad. Sci. USA 96:4089-4094, National Academy of Sciences (March 1999)

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